STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.		x	0000-000-000 SEE TABULATIONS BELOW FOR SECTION NUMBERS	1

City of Lynchburg, Virginia
STADIUM PARKING IMPROVEMENTS

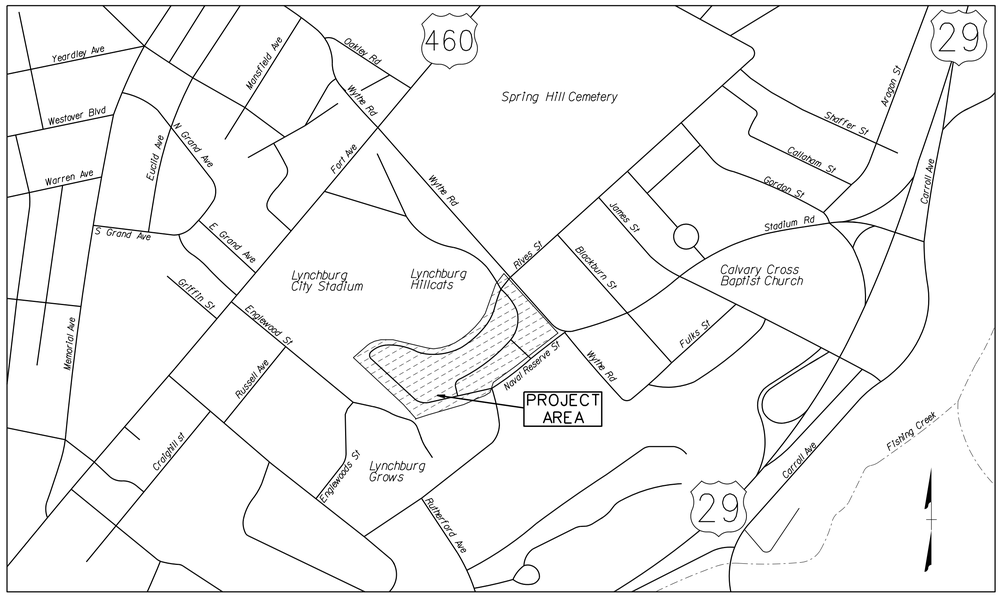
FINAL PLANS
NOVEMBER 1, 2016

MAYOR..... JOAN FOSTER
VICE MAYOR..... TRENEY TWEEDY
CITY MANAGER..... BONNIE SVRCEK
DIRECTOR OF PUBLIC WORKS..... GAYNELLE HART

LEGEND

CITY,TOWN OR VILLAGE
RIGHT OF WAY LINE
FENCE LINE
PROPERTY LINE
EXISTING SHOULDER LINE — SH
WATER LINE — W
SANITARY SEWER LINE — S
GAS LINE — G
ELECTRIC UNDERGROUND CABLE — UG
ELECTRIC OVER HEAD CABLE — OH
OVERHEAD UTILITY CABLE — OU
GUARD RAIL
BASE OR SURVEY LINE
CULVERTS
DROP INLET
TELEPHONE OR POWER POLES
HEDGE
TREES
HEAVY WOODS
WATERS OF THE U.S. — WUS

Denotes Existing Contours
Denotes Proposed Contours
Denotes Proposed Right of Way
Denotes Temporary Construction Easements
Denotes Permanent Drainage Easements
Denotes Permanent Utility Easements



NOT TO SCALE

CONTENTS	
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1	TITLE SHEET
1A	SURVEY DATA
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2A	DETAILS
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2C	LIGHT POLE DETAILS
3 THRU 3B	CONSTRUCTION & LIGHTING PLANS

REVISED

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS & STANDARD DETAILS, THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, THE VDOT ROAD AND BRIDGE STANDARDS, THE VDOT WORK AREA PROTECTION MANUAL, THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN.

COMMONWEALTH OF VIRGINIA
DONALD DEBERRY
Lic. No. 17180
11/01/16
PROFESSIONAL ENGINEER

McCORMICK TAYLOR

PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC. P.C. 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

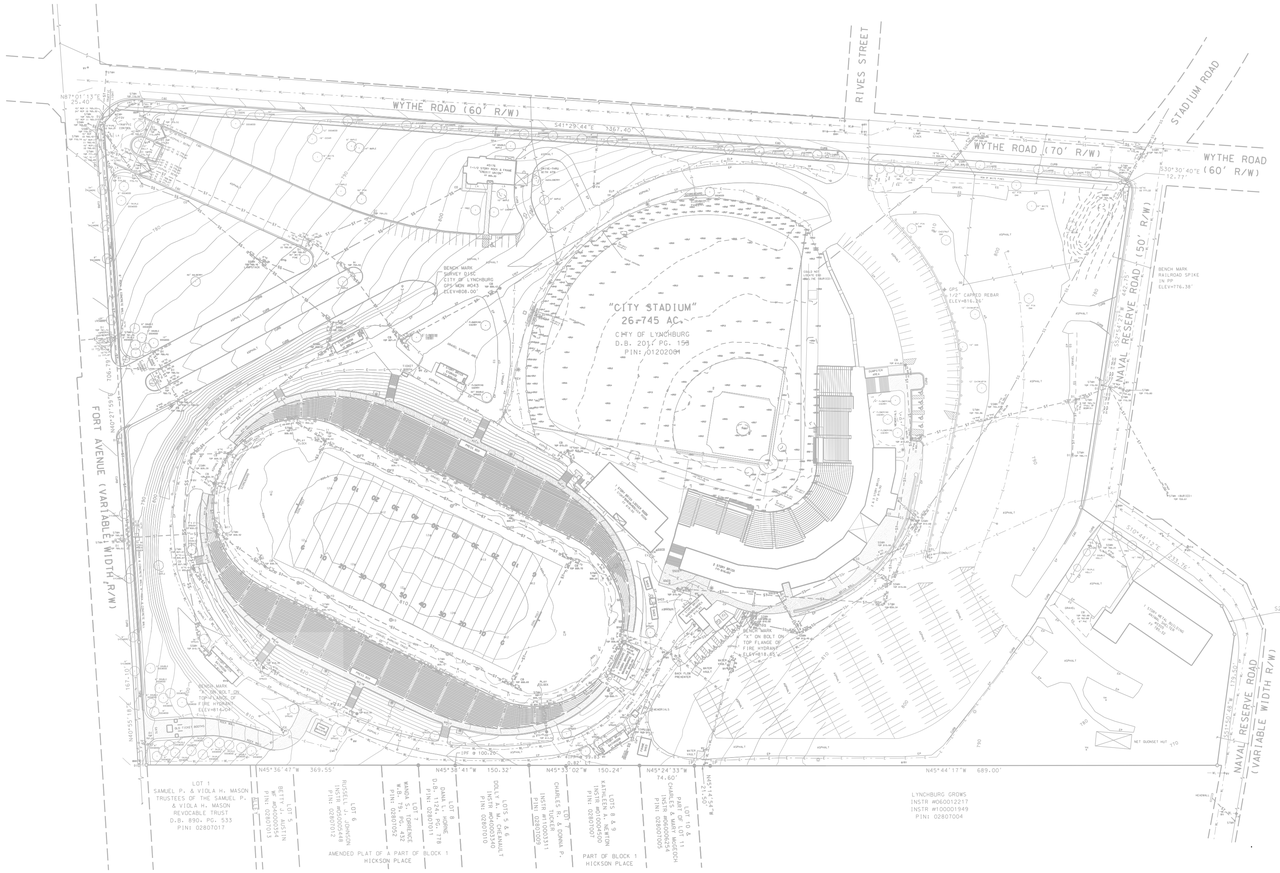
SURVEY ALIGNMENT DATA

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	1A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

LEGEND

	IRON PIN SET
	IRON PIN FOUND (IPF) UNLESS OTHERWISE SHOWN
IP	IRON PIPE FOUND
R/W	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT
EG	EDGE OF GRAVEL
C&G	CURB & GUTTER
FH	FIRE HYDRANT
WM	WATER METER
WV	WATER VALVE
WMH	WATER MANHOLE
	WATER LINE LOCATION
YH	YARD HYDRANT
I1	SMALL IRRIGATION HEAD
I2	LARGE IRRIGATION HEAD
TP	TELEPHONE PEDESTAL
TMH	TELEPHONE MANHOLE
	UNDERGROUND TELEPHONE LINE
EMH	ELECTRIC MANHOLE
EV	ELECTRIC VAULT
ELP	ELECTRIC PEDESTAL
ET	ELECTRIC TRANSFORMER
	STADIUM LIGHTS
	LIGHT POLE
	UTILITY POLE
DD	UTILITY POLE W/DUSK-TO-DAWN LIGHT
	OVERHEAD UTILITIES
	GUY WIRE
	UNDERGROUND ELECTRIC
EM	ELECTRIC METER
SSMH	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEAN-OUT
	SANITARY SEWER LINE
II	INVERT IN
IO	INVERT OUT
STMH	STORM SEWER MANHOLE
DI	DROP INLET
CB	CATCH BASIN
	STORM SEWER LINE
SD	STORM DRAIN
FD	FIELD DRAIN
TC	TERRA COTTA PIPE
PVC	POLYVINYL CHLORIDE PIPE
	FENCE
	OUTFIELD FENCE
	CONCRETE
	GUARDRAIL
B	BOLLARD
	FIBER OPTIC LINE
FOV	FIBER OPTIC VAULT
	GAS LINE
GR	GAS REGULATOR
FP	FLAG POLE
	SPOT ELEVATION
	HANDICAP PARKING SPACE



NOTES:
1. THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT NECESSARILY INDICATE ALL ENCUMBRANCES UPON THE TITLE.
2. BY GRAPHIC SCALING ONLY, THIS PROPERTY IS LOCATED IN ZONE "X" (NOT IN A DESIGNATED FLOOD AREA) ACCORDING TO THE F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE CITY OF LYNCHBURG (#5100930043D) DATED JUNE 3, 2008. NO FIELD SURVEYING WAS PERFORMED TO MAKE THIS DETERMINATION.
3. THIS PLAT DOES NOT PURPORT TO ADDRESS THE EXISTENCE, DETECTION OR DELINEATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS OR ANY ENVIRONMENTAL PROBLEMS LOCATED WITHIN THE PERIMETER OF THE PROPERTY SHOWN.
4. THIS PLAT HAS BEEN PREPARED FROM AN ACTUAL FIELD SURVEY DONE AS PER DATE OF THIS PLAT AND THERE ARE NO VISIBLE ENCROACHMENTS OR EASEMENTS EXCEPT AS SHOWN.
5. THIS TOPOGRAPHIC SURVEY OF CITY STADIUM WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF KEVIN A. MERKEY, LS #2217 FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED ON OCTOBER 24, 2011; AND THAT THIS PLAT MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
6. HORIZONTAL DATUM - NAD 83
   VERTICAL DATUM - NGVD 29
7. THE RIGHT-OF-WAY/BOUNDARY LINES ALONG WYTHE ROAD AND THE FIRST 442.75 FEET OF NAVAL RESERVE ROAD DO NOT MATCH RECORD INFORMATION IN THE CHAIN OF TITLE. THE LINES SHOWN REPRESENT ENGINEERING DRAWINGS AND ROAD PLANS OF RECORD WITH A FEW MODIFICATIONS TO EXCLUDE ANY ROAD IMPROVEMENTS IN THE BOUNDARY OF THE SURVEYED PROPERTY.
8. TOTAL PARKING SPACES - 286 INCLUDING 15 HANDICAP.
9. BUILDING SET BACKS: FRONT - 30 FEET
   SIDE - 8 FEET

SCALE	PROJECT	SHEET NO.
0 100' 200'	LYNCHBURG STADIUM	1A

PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC., P.C. 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

GENERAL NOTES

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	2

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

1. Work on this project shall conform to the latest editions of the City of Lynchburg Manual of Specifications & Standard Details, the Virginia Department of Transportation (VDOT) Road and Bridge Specifications, the VDOT Road and Bridge Standards, the VDOT Work Area Protection Manual, the Virginia Erosion and Sediment Control Handbook, and the Virginia Erosion and Sediment Control Regulations. In the event of conflict between any of these standards, specifications or plans, the most stringent shall govern.

2. The location of existing utilities as shown is approximate only. The contractor is responsible for locating all public or private utilities that lie in or adjacent to the construction site. The contractor shall be responsible for repairing, at his expense, all existing utilities damaged during construction. Forty-eight (48) hours prior to any excavation call Miss Utility 1 (800) 552-7001.

3. The Contractor shall verify all existing features shown on the survey and immediately notify the Engineer of any field conditions that differ from the existing features shown on the plans. Work done by the Contractor after his discovery of such discrepancies shall be done at the Contractor's risk.

4. Design features relating to construction or to regulation and control of traffic may be subject to change as deemed necessary by the City of Lyncburg.

5. The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

6. The cost of removal and disposal of all existing items located in the areas to be graded, including, but not limited to the following, shall be included in the price bid for Earthwork: curb, curb & gutter, entrances, sidewalk, inlets, pipe, concrete slabs and foundations.

7. The borrow material for this project shall be a minimum CBR 10 or as approved by the Engineer.

8. The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

9. The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Contractor shall confer with, and get approval from, the Engineer before installing the culvert or storm sewer outfall pipe.

10. The "H" dimension shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.

11. All pipe on this project shall be concrete. For strength, sheet thickness, or class designation; available sizes; height of cover limitations; and other restrictions for a particular pipe type or height cover, see applicable sections of the VDOT Road and Bridge Standards PC-1.

12. Where open joint pipe is to be used, no joint shall be opened a distance exceeding 25% of the spigot length. Sealing of the pipe joint shall be in accordance with Section 302 of the applicable VDOT Road and Bridge Specifications.

13. A pipe joint length different from that stated on the plans may be used. An adjustment in the percentage of open joint (not to exceed 25% of the spigot length) or amount of bevel shall be made that will obtain the radius stated on the plans. Extra payment for this adjustment will not be allowed. The proposed adjustment shall be approved by the Engineer prior to installation of the pipe line.

14. The proposed riprap may be omitted by the Engineer if the slope designated for placement of riprap is found to be comprised of solid rock or closely consolidated boulders with soundness, size and weight equal to, or exceeding, the specifications for proposed riprap.

15. All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard PP-1. The cost incidental to this and the Flowable Backfill shall be included in the contract price for other items.

16. Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.

17. Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified.

18. All pavement, stone, base, and saw cut required to install the new curbing shall be paid as incidental to the curb cost.

19. Clearing and grubbing shall be confined to those areas needed for construction. No trees or shrubs in ungraded areas shall be cut without the permission of the Engineer.

20. All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking on plan Sheet 8 and as directed by the Engineer.

21. The following sources, under contract with the City of Lynchburg, have provided information on this project:

Hydraulic Design - EPR, P.C.
Roadway Design - McCormick Taylor, Inc.
Utility Design - N/A
Utility Designation - MISS UTILITY and City
Survey - Berkley-Howell & Associates, and P.C. Perkins & Orrison, Inc.

If questions or problems arise during construction, please contact the City of Lynchburg attn: Clay Simmons DPWD 434-455-4450. DO NOT CONTACT THE OUTSIDE SOURCES.

22. The temporary erosion and siltation control items shown on the plans are intended to provide a general plan for controlling erosion and siltation within the project limits. The Erosion & Sediment Control (ESC) Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the Project Engineer and/or Environmental Monitor, shall adjust the location, quantity and type of erosion and sediment control items required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require emergengy analysis) shall be submitted to the City of Lynchburg for review and approval. Any changes to the proposed ESC Plan must be noted on a designated plan set (Record Set) which shall be retained on the project site and made available upon request.

23. The areas beyond the project's construction area are to be protected from siltation in accordance with the Virginia Erosion and Sediment Control Handbook. Perimeter controls such as filter barrier, silt fence, diversion dikes, turbidity curtains, etc. shall be installed prior to any grubbing operations or other earth moving activities.

24. Rock for Check Dams, Drop Inlet Silt Traps, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

25. All disturbed areas shall be fertilized and seeded with the applications as follows until a suitable stand of grass is obtained and approved by the Engineer.

Fertilizer (10-10-10) @ 1000 lb/acre or Approved Equivalent
Ground Limestone @ 1 ton/acre
Grass Seed (Ky. 31 Fescue) @ 150 lb/acre
Mulch (Straw or Approved Equivalent) @ 400 lb/acre

If construction takes place between November 1 and April 1, an additional 150 lb/acre of Rye grass is required.

26. Items depectided as NIC are not included in Contract.

27. All seeded and landscaped areas shall be watered with a minimum of 1/2 rainfall equivalent every 3 days from installation until first hard freeze. This water will be supplied and paid for by the contractor and should be included in the bid item for the individual seed and landscape items if bid separately or in the mobilization item if bid lump sum.

28. All seeding and landscaping will be guaranteed by the contractor from 1 year of installation.

29. All old lighting poles, bases, and wiring that is being replaced by new lighting shall be demoed and removed by contractor with the cost being incidental to the pole bases and conduit.

30. All pavement, base, sidewalks, and other items impacted by the installation of the lighting poles, bases, and wiring be replaced in kind or better by contractor with the cost being incidental to the pole bases and conduit.

	PROJECT	SHEET NO.
	LYNCHBURG STADIUM	2

PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC. P.C. 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	.	STADIUM PARKING IMPROVEMENTS	2A

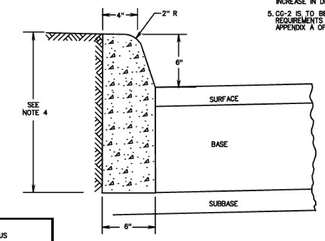
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

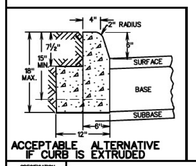
DETAILS

CG-2

NOTES:

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (10" DEPTH) OR INCREASED AS MUCH AS 3" (22" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL CONFORM WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE; OTHERWISE THE DEPTH IS TO BE 19" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-2, 5 TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-6 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL.





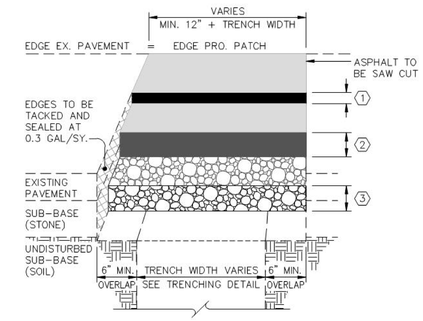
ACCEPTABLE ALTERNATIVE IF CURB IS EXTRUDED

SPECIFICATION REFERENCE
105 502

STANDARD 6" CURB

VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 9/05
201.01



PATCH DESIGN FOR ASPHALT STREETS

TYPE STREET	ARTERIAL and INDUSTRIAL	COLLECTOR	RESIDENTIAL
TYPE PATCH	TYPE A	TYPE B	TYPE C
1	2" SM-12.5D	2" SM-12.5D	2" SM-12.5A
2	8" BM25	6" BM25	4" BM25
3	7" VDOT NO.21A	4" VDOT NO.21A	4" VDOT NO.21A
PATCH DEPTH	TOTAL = 17"	TOTAL = 12"	TOTAL = 10"

NOTES:
1. PAVEMENT SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.

THE CITY OF LYNCHBURG

TRENCH PATCH
ASPHALT STREETS – TYPE A,B,& C

USE WITH THE CITY OF LYNCHBURG STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	25.18
REVISION DATE: 12-12-2014	SHEET #: 1 OF 1

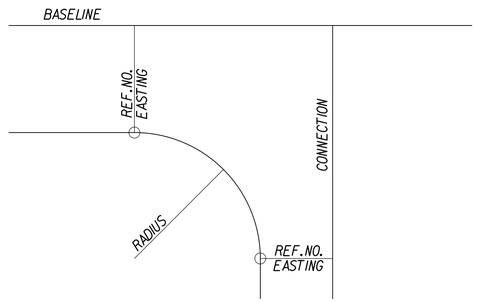
NOT TO SCALE	PROJECT: LYNCHBURG STADIUM	SHEET NO. 2A

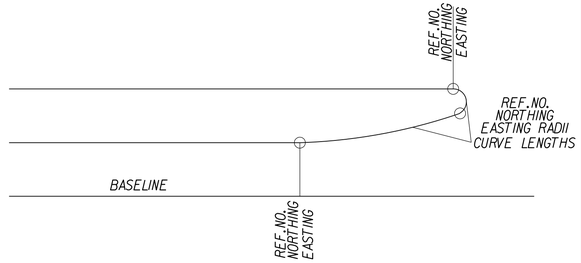
PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC. P.C. 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	2B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

RADIAL OFFSETS / BULLET NOSE DATA





POINT	NORTHING	EASTING	RADIUS (FT)	CURVE LENGTH (FT)	POINT	NORTHING	EASTING	RADIUS (FT)	CURVE LENGTH (FT)
1	3666881.952	11289327.32	5.0	11.2	51	3666863.591	11289616.85	1.0	2.8
2	3666890.485	11289330.12	5.0	11.2	52	3666835.922	11289620.69	2.0	3.1
3	3666891.479	11289337.28	1.5	2.4	53	3666864.179	11289618.73	1.0	2.8
4	3666890.2	11289338.98	1.5	2.4	54	3666834.216	11289622.95	2.0	3.1
5	3666858.284	11289351.59	0.5	1.2	55	3666835.054	11289628.98	3.0	5.7
6	3666858.711	11289352.43	0.5	1.2	56	3666839.377	11289631.25	3.0	5.7
7	3666924.604	11289579.53	0.5	0.8	57	3666830.044	11289662.28	15.0	19.7
8	3666925.168	11289579.96	0.5	0.8	58	3666842.033	11289656.23	15.0	26.2
9	3666925.714	11289583.89	5.0	6.2	59	3666883.048	11289635.51	5.0	7.0
10	3666923.014	11289589.04	5.0	6.2	60	3666880.515	11289641.41	5.0	7.0
11	3666891.174	11289593.26	0.5	0.8	61	3666822.138	11289678.8	15.0	19.7
12	3666890.748	11289593.82	0.5	0.8	62	3666863.16	11289665.29	15.0	26.2
13	3666891.278	11289597.64	5.0	9.5	63	3666864.087	11289668.37	5.0	7.9
14	3666898.483	11289601.42	5.0	9.5	64	3666860.74	11289674.6	5.0	7.9
15	3666949.098	11289602.14	5.0	7.4	65	3666893.407	11289684.25	3.5	6.1
16	3666898.785	11289627.56	3.8	11.7	66	3666898.308	11289686.38	3.5	6.1
17	3666926.43	11289613.52	3.8	11.7	67	3666882.45	11289790.25	1.5	2.4
18	3666902.183	11289634.28	3.8	11.7	68	3666881.481	11289792.11	1.5	2.4
19	3666955.568	11289603.92	5.0	7.4	69	3666891.17	11289787.62	3.0	8.2
20	3666929.939	11289620.14	3.8	11.7	70	3666893.982	11289792.78	3.0	8.2
21	3667065.992	11289744.22	3.0	6.5	71	3666884.264	11289798.73	1.5	2.7
22	3667054.697	11289755.51	1.5	2.3	72	3666886.544	11289799.13	1.5	2.7
23	3667066.48	11289749.49	3.0	6.5	73	3666967.946	11289826.27	4.9	15.5
24	3667056.757	11289755.91	1.5	2.3	74	3666973.199	11289834.58	4.9	15.5
25	3667015.976	11289790.05	4.4	14.6	75	3667013.769	11289928.01	4.4	14.6
26	3666990.741	11289811.82	4.6	13.8	76	3667019.719	11289934.59	4.4	14.6
27	3667020.613	11289797.6	4.4	14.6	77	3667045.834	11289914.26	4.9	15.5
28	3666995.624	11289819.52	4.6	13.8	78	3667053.432	11289920.51	4.9	15.5
29	3667062.941	11289893.39	4.6	13.8	79	3667040.712	11289950.42	3.0	6.1
30	3667083.856	11289867.87	4.4	14.6	80	3667045.608	11289951.79	3.0	6.1
31	3667069.994	11289899.17	4.6	13.8	81	3667047.804	11289959.24	15.5	17.0
32	3667090.721	11289873.48	4.4	14.6	82	3667043.594	11289974.88	15.5	17.0
33	3667126.422	11289815.94	4.4	14.6	83	3667062.08	11289986.32	20.0	14.3
34	3667133.123	11289821.74	4.4	14.6	84	3667086.462	11289991.44	12.5	16.2
35	3667261.036	11289955.6	1.5	3.3	85	3667086.323	11289993.08	3.0	1.7
36	3667263.496	11289956.66	1.5	3.3	86	3667201.575	11290000.7	3.0	8.4
37	3667269.675	11289948.87	5.0	4.7	87	3667213.274	11289976.03	4.5	14.1
38	3667267.892	11289952.99	5.0	4.7	88	3667206.414	11290004.1	3.0	8.4
39	3667313.254	11289879.09	4.4	14.6	89	3667211.326	11289999.15	15.0	5.1
40	3667338.078	11289830.08	4.4	14.6	90	3667214.234	11289995.01	15.0	5.1
41	3667322.118	11289879.31	4.4	14.6	91	3667221.406	11289979.89	4.5	14.1
42	3667346.917	11289829.38	4.4	14.6	92	3667183.099	11290063.34	1.5	2.3
43	3667343.82	11289922.29	3.0	9.4	93	3667183.517	11290065.38	1.5	2.3
44	3667348.421	11289918.44	3.0	9.4	94	3667189.767	11290052.82	3.0	5.6
45	3666829.014	11289382.32	5.0	11.2	95	3667194.602	11290052.5	3.0	5.6
46	3666837.546	11289385.13	5.0	11.2	96	3667202.597	11290062.06	1.5	2.3
47	3666838.454	11289391.67	1.5	2.4	97	3667202.451	11290064.13	1.5	2.3
48	3666837.174	11289393.36	1.5	2.4					
49	3666806.066	11289405.86	0.5	1.2					
50	3666806.493	11289406.7	0.5	1.2					

SCALE	PROJECT	SHEET NO.
0 25' 50'	LYNCHBURG STADIUM	2B

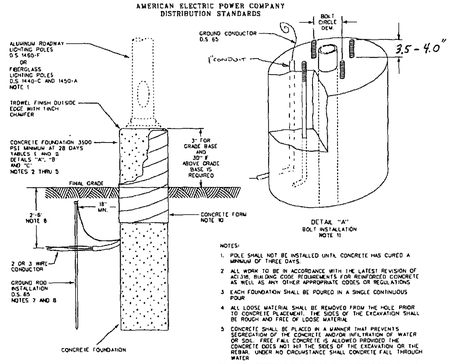
PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY, HOWELL, & ASSOC., P.C., 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	2C

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

DETAILS

AMERICAN ELECTRIC POWER COMPANY
DISTRIBUTION STANDARDS



NOTES:
1. POLE SHALL NOT BE INSTALLED UNTIL CONCRETE HAS CURED A MINIMUM OF THREE DAYS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE LATEST REVISION OF ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AS WELL AS ANY OTHER APPROPRIATE CODES OR REGULATIONS.
3. EACH FOUNDATION SHALL BE POURED IN A SINGLE CONTINUOUS POUR.
4. ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE HOLE PRIOR TO CONCRETE PLACEMENT. THE SIDES OF THE EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE MATERIAL.
5. CONCRETE SHALL BE PLACED IN A MANNER THAT PREVENTS SEGREGATION OF THE CONCRETE AND/OR INFILTRATION OF WATER OR SOIL. FREE FALL CONCRETE IS ALLOWED PROVIDED THE CONCRETE DOES NOT HIT THE SIDES OF THE EXCAVATION OR THE REBAR. UNDER NO CIRCUMSTANCE SHALL CONCRETE FALL THROUGH WATER.
8. BURY UNDERGROUND CONDUCTORS 30" IF DIRECT BURIED AND 24" IF IN CONDUIT.
7. GROUND RODS ARE TO BE DRIVEN TO THE DEPTH SHOWN UNLESS ROCK OR OTHER OBSTRUCTIONS ARE ENCOUNTERED. RESISTANCE OF INDIVIDUAL GROUND LOCATIONS SHOULD BE LOWERED TO PRACTICAL VALUES. ADDITIONAL GROUND RODS MAY BE DRIVEN (NO MORE THAN THREE AT ANY SINGLE LOCATION).
8. GROUNDING CONDUCTOR SHALL BE CONNECTED TO GROUNDING STUD OF METALLIC POLES IN VICINITY OF HANDHOLE AND TO FIXTURES GROUNDING LUG.
9. FOR SOIL CLASSIFICATION DETAILS, REFER TO D.S. 220.
10. FORM FOR CONCRETE FOUNDATION SHALL BE MADE FROM SONOTUBE OR SIMILAR MATERIAL. FORM SHALL EXTEND MINIMUM OF 12" BELOW GRADE.
11. REFER TO POLE MANUFACTURER'S INSTRUCTIONS FOR PLACEMENT OF ANCHOR BOLTS AND TORQUE REQUIREMENTS. POLE MANUFACTURER TO SUPPLY TEMPLATE AND ANCHOR BOLTS.
12. SIZE CONDUIT FOR CONDUCTORS. TWO CONDUITS MAY BE INSTALLED IF CONDUCTOR LOOPS THROUGH FOUNDATION.
13. FORM HORIZONTAL REBAR IN RING OF 2" DIAMETER FOR 18" DIAMETER FOUNDATION AND 10" FOR 24" FOUNDATION.
14. HORIZONTAL TIES SHALL BE TIED TO VERTICAL REINFORCEMENT WITH STANDARD REINFORCEMENT TIE WIRE.

TABLE I
CONCRETE FOUNDATION LENGTH
NOTE 9

FOUNDATION DESIGN	DIAMETER (INCHES)	GRADE BASE FOUNDATION LENGTH (FEET)		ABOVE GRADE BASE FOUNDATION LENGTH (FEET)	
		SOIL CLASSIFICATION		SOIL CLASSIFICATION	
		HARD OR NORMAL	SOFT	HARD OR NORMAL	SOFT
A	18	4	5	7	
B	18	5	6	8	
C	24	5	6	7	8
D	24	6	7	9	
E	24	8	8	10	

CONCRETE FOUNDATION

JULY 15, 2002

D.S. 1435
PAGE 1 OF 2

AMERICAN ELECTRIC POWER COMPANY
DISTRIBUTION STANDARDS

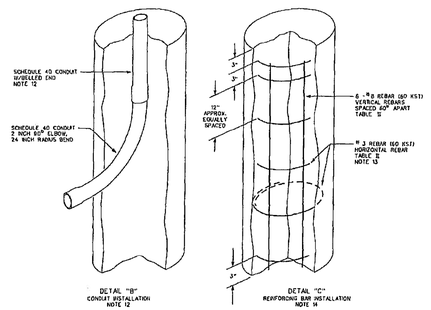


TABLE II
FOUNDATION REBAR INFORMATION

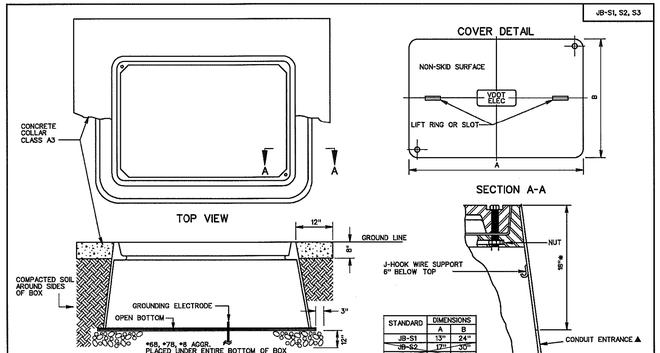
FOUNDATION SIZE		CUBIC YARDS OF CONCRETE	#8 REBAR (60 KSI) VERTICAL REINFORCEMENT REBAR		#3 REBAR (60 KSI) HORIZONTAL REINFORCEMENT REBAR		
DIAMETER (INCHES)	LENGTH (FEET)		LENGTH (FT-IN)	WEIGHT (LBS)	QUANTITY	LENGTH (FT-IN)	WEIGHT (LBS)
X	4	0.26	3'-8"	34	5	4'-2"	8
	5	0.33	4'-8"	43	6		9
	6	0.39	5'-8"	52	7		11
	7	0.46	6'-8"	59	8		13
	8	0.52	7'-8"	68	9		14
(24)	5	0.51	4'-8"	43	8	5'-8½"	12
	6	0.70	5'-8"	50	7		13
	7	0.81	6'-8"	59	8		17
	8	0.93	7'-8"	68	9		19
	9	1.05	8'-8"	77	10		21
	10	1.16	9'-8"	88	11		24

CONCRETE FOUNDATION

JULY 15, 2002

D.S. 1435
PAGE 2 OF 2

JB-S1, S2, S3



STANDARD	DIMENSIONS	
	A	B
JB-S1	13"	24"
JB-S2	17½"	30"
JB-S3	24"	36"

NOTES:

JUNCTION BOXES MAY BE STRAIGHT OR FLARED WALL IN DESIGN. MATERIALS SHALL CONFORM TO SECTION 238 OF THE ROAD & BRIDGE SPECIFICATIONS.

BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.

GROUNDING BUSHINGS SHALL BE INSTALLED ON THE ENDS OF METAL CONDUITS.

BELL ENDS AND BUSHINGS SHALL BE REQUIRED TO PREVENT MOISTURE AND RODENT ENTRY.

*DEPTH OF CONDUIT ENTRANCE FOR USE OF MAGNETIC DETECTORS SHALL BE IN ACCORDANCE WITH STANDARD TD-2.

CONDUIT ENTRANCES SHALL BE LOCATED AS SHOWN ON THE PLANS.

THE COVER SHALL HAVE A NON-SKID SURFACE WITH LETTERS CAST IN THE DEPRESSION ON TOP. THE LETTERS "VDOT ELEC", "VDOT TRAF", "VDOT COMM" OR UTILITY AS APPLICABLE ARE TO BE 1" WIDE. COVERS USED FOR JUNCTION BOXES INSTALLED WITHIN MUNICIPALITIES SHALL NOT REQUIRE THE VDOT REFERENCE.

ALL JUNCTION BOXES SHALL BE INSTALLED WITH A GROUNDING ELECTRODE

TWO RECESSED ⅜" HEX HEAD BOLTS ARE REQUIRED FOR EACH COVER.

▲ A MINIMUM 2" DIAMETER CONDUIT ENTRANCE IS REQUIRED, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

J-HOOK WIRE SUPPORTS SHALL BE SECURELY ATTACHED TO THE JUNCTION BOX WITH A BOLT AND NUT WITH A NEOPRENE WASHER OR AN EXPANSION FITTING.

CONDUITS SHALL EXTEND 2" TO 3" MAX. INTOTHE INSIDE WALL OF THE JUNCTION BOX.

THE JUNCTION BOX MAY BE A TWO PIECE DESIGN WITH THE TOP SECTION NO LESS THAN 17" IN DEPTH.

VOIDS RESULTING FROM ENTRANCE OF CONDUITS INTO JUNCTION BOXES SHALL BE COMPLETELY FILLED WITH AN APPROVED MATERIAL.

INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 700 OF THE ROAD & BRIDGE SPECIFICATIONS.

SPECIFICATION REFERENCE	JUNCTION BOX FOR NON-DELIBRATE TRAFFIC USE	VDOT ROAD AND BRIDGE STANDARDS
700 238	VIRGINIA DEPARTMENT OF TRANSPORTATION	REVISION DATE: SHEET 1 OF 1
		1317.20

FEATURES & SPECIFICATIONS

CONSTRUCTION - Welds conform to applicable AWS structural welding code. Pole shaft is one piece, low carbon alloy steel per ASTM A595, Grade A or ASTM A500, Grade C with 50,000-PSI minimum yield strength. Pole base shall be per ASTM A36 and shall telescope pole shaft and be circumferentially welded top and bottom. Hand hole is 2" x 4" minimum, cover and fasteners are included. Base covers shall be two piece, interlocking construction. Finish shall match pole. Removable pole cap shall be provided with each drill pattern type pole. Non-structural fasteners shall be stainless steel.

FINISH – Galvanized poles per ASTM A123. Painted poles shall be semi-gloss powder paint.

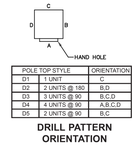
GROUNDING – Grounding provision shall be immediately accessible through hand hole, ½-13 threads.

ANCHOR BOLTS – Steel anchor bolts shall be per AASHTO M314 or ASTM F 1554 - Grade 55, hot dip galvanize. Nuts and washers shall be per AASHTO M314-90 or ASTM F 1554 – hot dip galvanized.

Catalog Number	
Order Number	Type

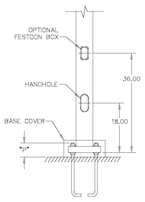
SSS

SQUARE STRAIGHT STEEL POLES



POLE TOP STYLE	ORIENTATION
D1	1 UNIT C
D2	2 UNITS @ 180 B,D
D3	3 UNITS @ 90 B,C,D
D4	4 UNITS @ 90 A,B,C,D
D5	2 UNITS @ 90 B,C

DRILL PATTERN ORIENTATION



POLE ORDERING DATA

How to construct a catalog number for SSS poles:
EXAMPLE SSS2555C D1 R3 BZ 1 Fill in Catalog Number _____ ___ ___ ___ ___
1 2 3 4 5

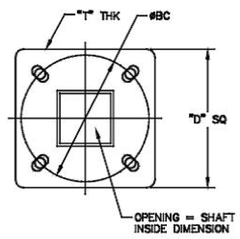
STEP	CATALOG NUMBER	DESCRIPTION
1. BASE POLE	(SEE SHEET 2)	SQUARE STRAIGHT STEEL
2. POLE TOP STYLE	D1	DRILLING FOR 1 UNIT
	D2	DRILLING FOR 2 UNITS @ 180
	D3	DRILLING FOR 3 UNITS @ 90
	D4	DRILLING FOR 4 UNITS @ 90
	D5	DRILLING FOR 2 UNITS @ 90
	P2	TENON, 2.38 O.D. X 4" LG.
	P3	TENON, 3.50 O.D. X 6" LG.
	P4	TENON, 4.50 O.D. X 6" LG.
	P5	TENON 2.88 O.D. X 4" LG.
3. POLE TOP DRILL PATTERN	H1	PARKPACK, HORZ NO ARM
	H3	PARKPACK, HORZ WITH ARM
	J4	MIRROSTAR ONLY
	R2	MOD 600 & SOMERSET ONLY
	R3	MONGOOSE ONLY
	T3	POLESTAR ONLY
	W5	PARKPACK, VERT NO ARM
	ND	NO DRILL PATTERN
	AF1	AEL 53
	AF2	AEL 153
	AF3	AEL LS, LM
	AF5	AEL AVL W/A-OPTION
	AF6	AEL ASA & AVL
4. FINISH	BK	BLACK PAINT
	BZ	BRONZE PAINT
	GN	GREEN PAINT
	GR	GRAY PAINT
	HG	HOT DIP GALVANIZED
	PP	PRIME PAINT
	WH	WHITE PAINT
5. OPTIONS	1	FESTOON BOX
	3	TAMPER RESISTANT SCREWS
	4	VIBRATION DAMPENER

NOTES:
1. Pole top drill pattern types H1 - W5 are available on drilled pole tops only. ND is only available on tenon pole tops.
2. The Festoon Box is located on the same side as the hand hole, 36" above pole base. Receptacle / Cover are not included.

HOLOPHANE®

SSS.PMD (HL-2079) 5/20/13

SSS Square Straight Steel Poles					NON-AASHTO Rating							
					90 mph + 1.14 gust		100 mph + 1.14 gust		100 mph + 1.14 gust			
Ref. Item No.	Base Pole Number	Nominal Pole Height	Nominal Shaft Size & Wall Thickness	EPA Vertical Offset from Top of Pole	Max EPA	Max Wt.	Max EPA	Max Wt.	Max EPA	Max Wt.	Bolt Circle Dia.	Anchor Bolt Size
3	SSS3055C	30	5.0 Square x 11 Ga	0"	4.7	140	2	50	na	na	11	.75 x 17 +3
				30"	4.4	110	1.6	40	na	na		



BASE DETAIL

Ref. Item No.	Bolt Circle Dia.	Min. Base Size "D"	Base Thk. "T"	Bolt Projection	Anchor Bolt Set	Bolt Circle Template
3	11	11	1	3.50 - 4.00	AB-26-4	TMP-45

LIGHTING PLAN GENERAL NOTES & QUANTITIES

1. Aep Will Provide And Install All Light Poles, Luminaires And Conductor Cable. Contractor Shall Provide And Install All Remaining Items Such As Pole Foundations, Junction Boxes And Conduits.
2. The Contractor Shall Field Verify Anchor Bolts And Patterns And Foundations With Aep Prior To Installing Lighting Pole Foundations.
3. All Luminaires Shall Be Fused In The Transformer Base, Handhole, Fusebox, Or Nearest Junction Box By Aep.
4. Conduits And Junction Boxes Shown On These Plans Are Diagrammatic And Actual Conduit Runs And Junction Box Locations Shall Conform To The Field Conditions.
5. Certain Utilities Within The Vicinity Of This Project Area Are Shown On The Plans. The Utilities Shown Are Not Guaranteed To Be Complete Or Accurately Located. The Contractor Is Responsible For Locating All Existing Utilities And Lighting Systems Before Proceeding With Work.
6. At Locations Where Proposed Conduit Shall Cross Existing Conduit, The Contractor Shall Hand Dig The Trench And Shall Take Adequate Care Not To Damage The Existing Conduit Or The Contents Thereof. These Conditions Shall Apply At All Such Conduit Crossings Except Those Locations Where Proposed Conduit Will Cross Conduit Designated To Be Abandoned.
7. Conduit Shall Be Installed With Large Radius Offsets (5' Minimum Radius) To Bypass Drainage Inlets, Manholes, And Other Obstructions.
8. The Location Of The Light Pole Foundation Grounding Rod Shall Be Marked On The Top Surface Of The Foundation By A Recessed Arrow And Initial "G" Formed In The Concrete. The Ground Rod Shall Typically Be Placed To The Left Of The Lighting Pole Foundation As Observed From The Pole Handhole.
9. Conductors In Junction Boxes, Manholes, And All Equipment Enclosures Shall Be Neatly Arranged And Laced With Approved Cable Ties.
10. Where Conductor Cables Terminate In Junction Boxes Or Lighting Standards, They Shall Be Tested And Capped With 3 Ft. Of Slack Per Conductor.
11. Locations Of Existing Junctions Boxes And Manholes Shown On The Plans Are Approximate.
12. Areas Around Cabinets, Junction Boxes And Manholes On Slopes Shall Be Graded As Approved By The Engineer.
13. The Contractor Shall Coordinate Electrical Service With The Engineer And With Aep.
14. All Underground Conduits Shall Be Sloped To Drain Junction Boxes Or Manholes. If This Cannot Be Accomplished, They Shall Be Provide With Drainage Tees At The Low Points Of Conduits.
15. All Junction Boxes And Manholes Shall Be Provided With A Means For Drainage.

NOT TO SCALE	PROJECT: LYNCHBURG STADIUM	SHEET NO.: 2C

10/10/2016
11:23:53 AM

Stadium_003.dgn
Plotted By: localuser

PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC., P.C., 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

Matchline Sheet 4

NEW PARKING AREA N.I.C.

BIO RET. & CURBING IN THIS AREA N.I.C.

BIO RET.
SEE DETAILS SHEET 4.03

LIGHT POLE BASE
STD. CG-2
4" WHITE TYP.
18'
9'
24' TYP.
SAW CUT
SEE DETAIL SHEET 2A
NET QUONSET HUT
2 & 3 STORY BRICK FFE 815.90
2 STORY BRICK FFE 816.02
NAVAL RESERVE ROAD (VARIABLE WIDTH R/W)
S10°44'12"E 237.61'
S51°50'48"W 179.50'
N45°44'17"W 689.00'
N45°14'54"E 21.50'
LYNCHBURG GROWS
INSTR #060012217
INSTR #100001949
PIN: 02807004

COMPLETE PARKING TABLE INCLUDING PARKING IMPROVEMENTS AND "NEW PARKING" IS INCLUDED ON "NEW PARKING" PLANS

Denotes New Pavement
Denotes Resurfacing
Denotes Demolition of Pavement

SCALE	PROJECT	SHEET NO.
0 25' 50'	LYNCHBURG STADIUM	3

10/10/2016
11:24:00 AM

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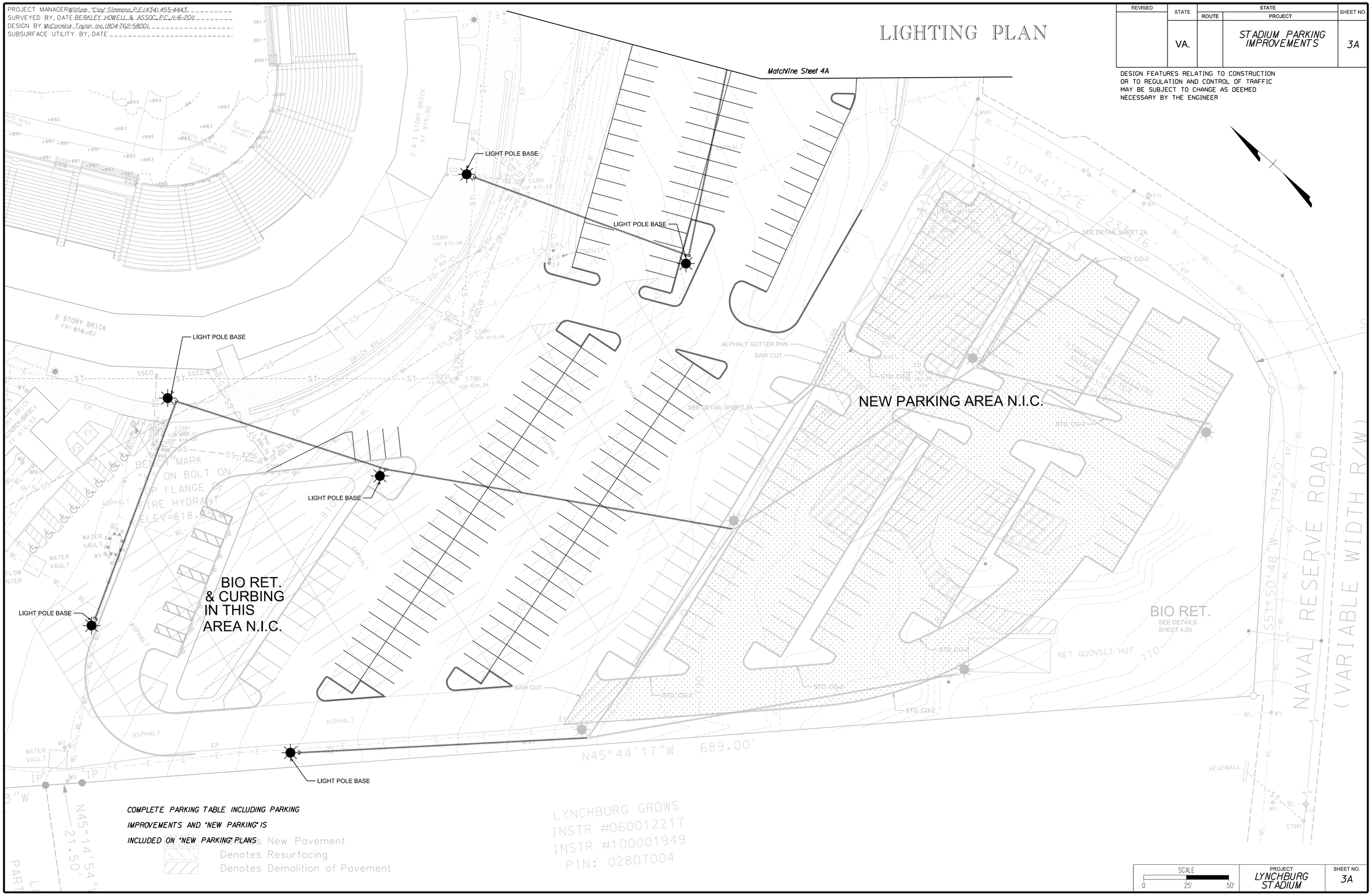
PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC., P.C., 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

LIGHTING PLAN

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	3A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER



COMPLETE PARKING TABLE INCLUDING PARKING IMPROVEMENTS AND "NEW PARKING" IS INCLUDED ON "NEW PARKING" PLANS

Denotes New Pavement
Denotes Resurfacing
Denotes Demolition of Pavement

SCALE	PROJECT	SHEET NO.
0 25' 50'	LYNCHBURG STADIUM	3A

10/10/2016
11:24:07 AM

Stadium_004.dgn
Plotted By: localuser

PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
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DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	4

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

WYTHE ROAD (70' R/W)

NAVAL RESERVE ROAD (50' R/W)

BENCH MARK
RAILROAD SPIKE
IN PP
ELEV=776.38'

STD. CG-2
4" WHITE TYP.
REMOVE TREE
LIGHT POLE BASE
JB-S1
2" SCH 40 CONDUIT
24'
18'
9'
32.5'
37.5'
INSTALL STAIRS & HANDRAIL
INSTALL PED CROSS WALK

COMPLETE PARKING TABLE INCLUDING PARKING IMPROVEMENTS AND "NEW PARKING" IS INCLUDED ON "NEW PARKING" PLANS

Matchline Sheet 3

SCALE	PROJECT	SHEET NO.
0 25' 50'	LYNCHBURG STADIUM	4

10/10/2016
11:24:4 AM

Stadium_004A.dgn
Plotted By: localuser

PROJECT MANAGER William "Clay" Simmons, P.E. (434) 455-4443
SURVEYED BY, DATE BERKLEY HOWELL & ASSOC., P.C. 11-16-2011
DESIGN BY McCormick Taylor, Inc. (804-762-5800)
SUBSURFACE UTILITY BY, DATE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		STADIUM PARKING IMPROVEMENTS	4A

WYTHE ROAD LIGHTING PLAN

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE ENGINEER

LIGHT POLE BASE
JB-S1
2" SCH 40 CONDUIT
STD. CG-2
2" SCH 40 CONDUIT
JB-S1
LIGHT POLE BASE
JB-S1
2" SCH 40 CONDUIT
LIGHT POLE BASE
JB-S1
2" SCH 40 CONDUIT
STD. CG-2
LIGHT POLE BASE
JB-S1
2" SCH 40 CONDUIT
LIGHT POLE BASE

BENCH MARK
RAILROAD SPIKE
IN PP
ELEV=776.38'

COMPLETE PARKING TABLE INCLUDING PARKING IMPROVEMENTS AND "NEW PARKING" IS INCLUDED ON "NEW PARKING" PLANS

Matchline Sheet 3A

SCALE	PROJECT	SHEET NO.
0 25' 50'	LYNCHBURG STADIUM	4A